



**Contact SAMSUNG WORLDWIDE**

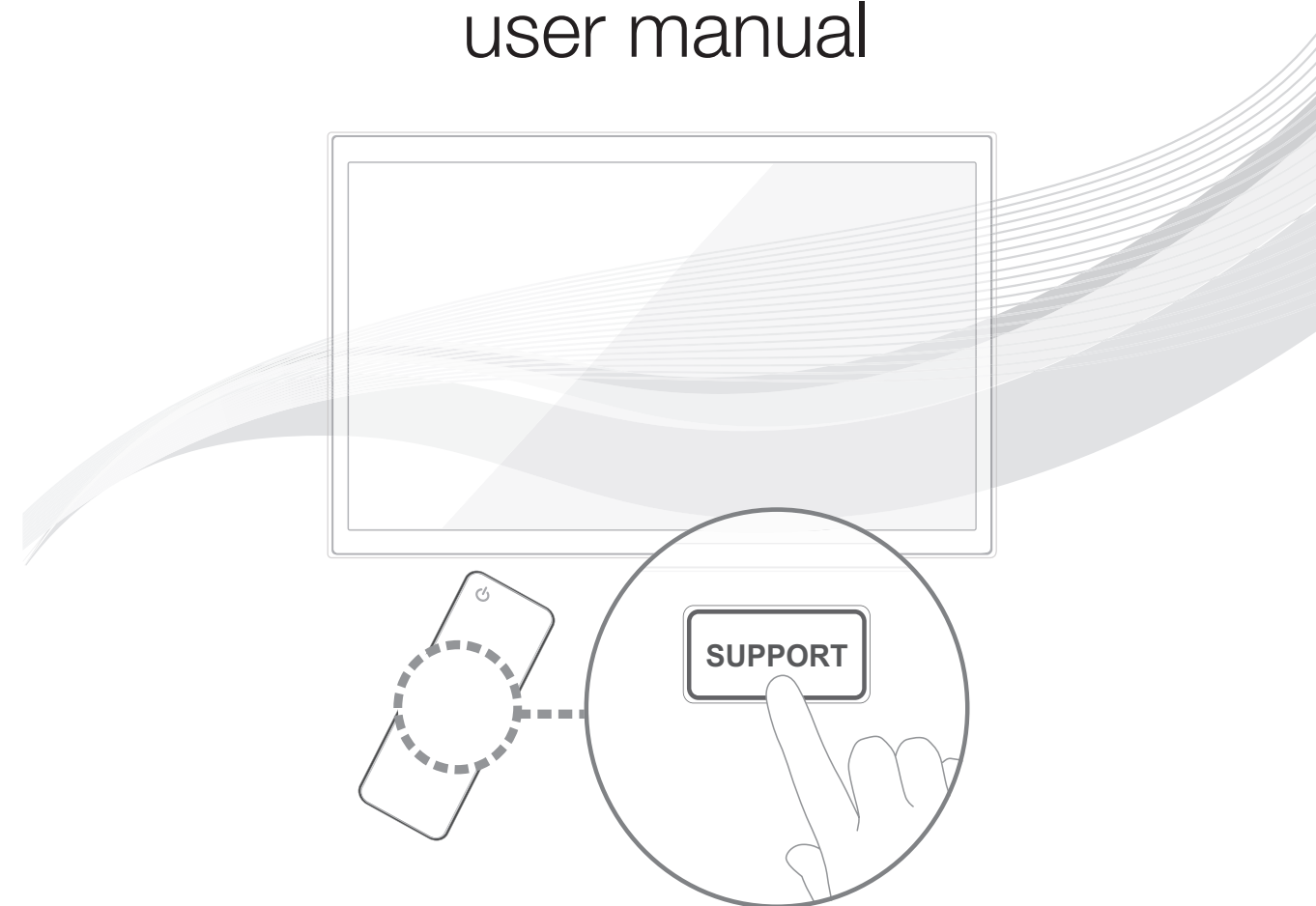
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
EIRE	0818 717100	www.samsung.com
U.K	0330 SAMSUNG (7267864)	www.samsung.com



# Plasma TV

## user manual



Thank you for purchasing this Samsung product.  
To receive more complete service, please register  
your product at  
[www.samsung.com/register](http://www.samsung.com/register)

Model \_\_\_\_\_ Serial No. \_\_\_\_\_



BN68-04062J-03

**A detailed User's Manual is built into your TV.**

**For more information about how to view this e-Manual see page 33.**

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

### Digital TV notice

1. Functionalities related to Digital TV (DVB) are only available in countries/areas where DVB-T (MPEG2 and MPEG4 AVC) digital terrestrial signals are broadcasted or where you are able to access to a compatible DVB-C (MPEG2 and MPEG4 AAC) cable-TV service. Please check with your local dealer the possibility to receive DVB-T or DVB-C signal.
2. DVB-T is the DVB European consortium standard for the broadcast transmission of digital terrestrial television and DVB-C is that for the broadcast transmission of digital TV over cable. However, some differentiated features like EPG (Electric Programme Guide), VOD (Video On Demand) and so on, are not included in this specification. So, they cannot be workable at this moment.
3. Although this TV set meets the latest DVB-T and DVB-C standards, as of [August, 2008], the compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.
4. Depending on the countries/areas where this TV set is used some cable-TV providers may charge an additional fee for such a service and you may be required to agree to terms and conditions of their business.
5. Some Digital TV functions might be unavailable in some countries or regions and DVB-C might not work correctly with some cable service providers.
6. For more information, please contact your local Samsung customer care centre.
  - ✎ The reception quality of TV may be affected due to differences in broadcasting method between the countries. Please check the TV performance in the local SAMSUNG Authorized Dealer, or the Samsung Call Centre whether it can be improved by reconfiguring TV setting or not.

### User Instructions

- **Screen Image retention**

Do not display a still image (such as on a video game) on the plasma display panel for more than several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- **Heat on the top of the Plasma TV**

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.

This is normal and does not indicate any defect or operation failure of the product.

However, children should be prevented from touching the upper part of the product.

- **The product is making a "cracking" noise.**

A "cracking" noise may occur when the product contracts or expands due to a change in the surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

- **Cell Defects**

The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-level) pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

- **Avoid operating the TV at temperatures below 41°F (5°C)**

- **A still image displayed too long may cause permanent damage to the PDP Panel.**



Watching the Plasma TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effects to the screen.

Damages caused by the above effect are not covered by the Warranty.

- **After-images on the Screen.**


Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.

To prevent this effect, reduce the “brightness” and “contrast” when displaying still images for a long time.

- **Warranty**

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

 **WARNINGS:** Image retention, commonly known as screen burn-in, can occur on most types of television if the same image is displayed continuously. The most common causes of image retention are logos that remain stationary on the TV screen. These logos are common on many programmes received via a Set-top Box. To reduce this risk, avoid displaying still images for long durations and lower the brightness or contrast settings to decrease the intensity of the picture. Extended viewing of movies and programs in aspect ratios that are different from the aspect ratio of the TV may cause image retention. Always endeavour to avoid black borders top or bottom by using the zoom function. This will help eliminate the black borders and fit the picture to the entire area of the screen. Using a video game console may cause image retention and is not recommended. When using a PC input, avoid displaying still images for long durations and reduce the brightness or contrast settings to decrease the intensity of the picture.

 **IMPORTANT:** Image retention issues are not covered by your Samsung® warranty.

- **Caution**



The glass screen of your PDP TV can break if you accidentally drop the TV. Handle the TV with care.

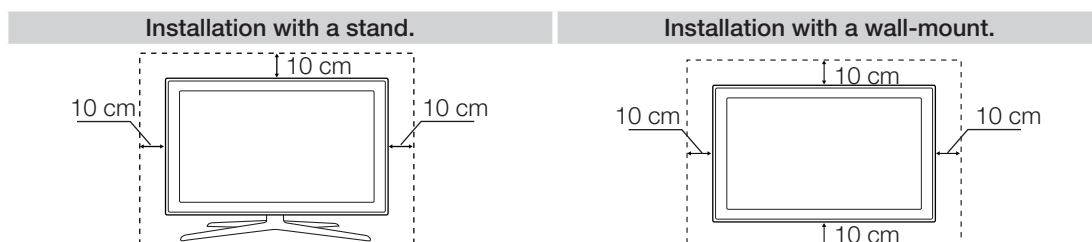
When moving the TV, always have two or more people pick it up and carry it as a safety precaution. Do not lay the TV flat on its face or back.

Your Samsung Plasma TV is a high quality television that has been carefully packaged to protect the integrity of its glass panel and component parts during shipment. It is, nonetheless, a fragile piece of electronics that requires careful handling. Refrain from putting undue stress on any part of the packaging when shipping or unpacking the TV. Use care when installing the TV. Avoid placing the TV in a location where it may be struck, exposed to sharp impacts, or fall. Panel breakage caused by a fall or impact strike is not covered under the manufacturer's warranty.

## Providing Proper Ventilation for Your TV

When you install your TV, maintain a distance of at least 4 inches between the TV and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or a problem with the product caused by an increase in its internal temperature.

- ✎ Whether you install your TV using a stand or a wall-mount, we strongly recommend you use parts provided by Samsung Electronics only.
- If you use parts provided by another manufacturer, it may cause difficulties with the product or result in injury caused by the product falling.



### ⚠ Other Warnings

- ✎ The actual appearance of the TV may differ from the images in this manual, depending on the model.
- ✎ Be careful when you touch the TV. Some parts can be somewhat hot.



### **Correct Disposal of This Product (Waste Electrical & Electronic Equipment)** (Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



### **Correct disposal of batteries in this product** (Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

- An administration fee may be charged if either
  - (a) an engineer is called out at your request and there is no defect in the product (i.e. where you have failed to read this user manual)
  - (b) you bring the unit to a repair centre and there is no defect in the product (i.e. where you have failed to read this user manual).
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

## List of Features

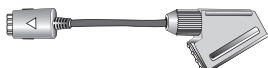
- **3D:** This exciting new feature enables you to view 3D content.
- **SMART HUB:** Using Smart Hub, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV.
  - Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.
- **AllShare Play:** Lets you access, view, or play photos, videos, or music located on USB devices, digital cameras, mobile phones, and PCs. PCs and mobile phones can be accessed wirelessly, through your wireless network.
- **Anynet+ (HDMI-CEC):** Allows you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote.
- **e-Manual:** Provides a detailed, on-screen user's manual that's built into your TV. (p. 33)
- **SMART Interaction:** Using this function, you can access and control menu options and functions using speech or gestures. (p. 18)

## Accessories

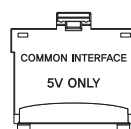
- ✎ Please make sure the following items are included with your TV. If any items are missing, contact your dealer.
- ✎ The items' colours and shapes may vary depending on the models.
- ✎ Cables not included in the package contents can be purchased separately.
- ✎ Check that there is no accessory hidden behind packing materials when you open the box.

### ⚠ CAUTION: INSERT SECURELY LEST SHOULD BE DETACHED IN SET

- Smart Touch Control & Batteries (AA x 2)
- Remote Control & Batteries (AAA x 2)
- User Manual
- Power Cord
- Cleaning-Cloth
- Samsung 3D Active Glasses



Scart Adapter



CI Card Adapter



Ferrite Core (2EA)



IR Blaster & Batteries (AA x 4)

- ✎ Ferrite Core for Power Cord: The ferrite cores are used to shield the cables from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug as shown in the figure.
  - **A** Maximum distance between the ferrite core and the end of the cord inserted in the TV: 3/4 inches
- ✎ Ferrite Core : The ferrite cores are used to shield the cables from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug as shown in the figure.

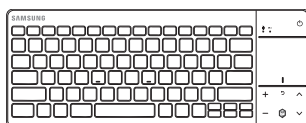


Power Cord



LAN Cable  
(sold separately)

### Wireless Keyboard (Sold Separately)

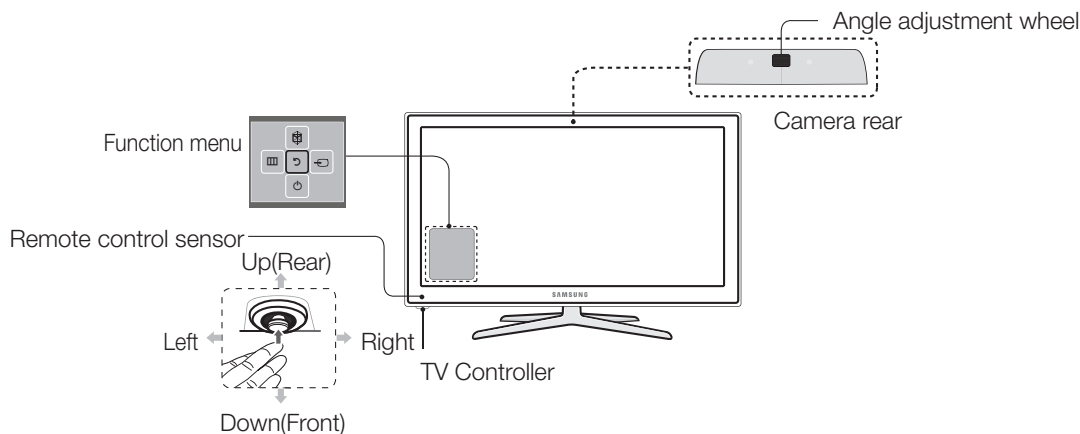


Wireless Keyboard

## Using the TV's Controller (Panel Key)

The TV's Controller, a small joy stick like button on the rear right side of the TV, lets you control the TV without the remote control.

The product colour and shape may vary depending on the model.



- Follow these instructions facing the front of your TV.
- When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.
- Before you use the TV camera for the first time you should check whether tape is attached at the rear of the TV camera. TV camera can be then used after adjusting the camera angle. If you do not intend to use the TV camera, move the camera lens upwards so that the lens is not revealed. In this case, **Face recognition** and **Motion control** are not available.

<b>Power on</b>	Turn the TV on by pressing the Controller when the TV is in standby mode.
<b>Adjusting the volume</b>	Adjust the volume by moving the Controller from side to side when the power is on.
<b>Selecting a channel</b>	Select a channel by moving the Controller upwards and downwards when the power is on.
<b>Using the Function menu</b>	To view and use the Function menu, press and release the Controller when the power is on. To close the Function menu, press and release the Controller again.
<b>Selecting the MENU (III)</b>	With the Function menu visible, select the <b>MENU</b> (III) by moving the Controller to the left. The OSD (On Screen Display) Menu appears. Select an option by moving the Controller to the right. Move the Controller to the right or left, or backwards and forwards to make additional selections. To change a parameter, select the it, and then press the Controller.
<b>Selecting the SMART HUB (H)</b>	With the Function menu visible, select <b>SMART HUB</b> (H) by moving the Controller upwards. The <b>SMART HUB</b> main screen appears. Select an application by moving the Controller, and then pressing the Controller.
<b>Selecting a Source (S)</b>	With the Function menu visible, open the <b>Source</b> (S) by moving the Controller to the right. The Source screen appears. To select a <b>Source</b> , move the Controller back and forth. When the source you want is highlighted, press the Controller.
<b>Power off (P)</b>	With the Function menu visible, select <b>Power off</b> (P) by moving the Controller downwards, and then press the Controller.

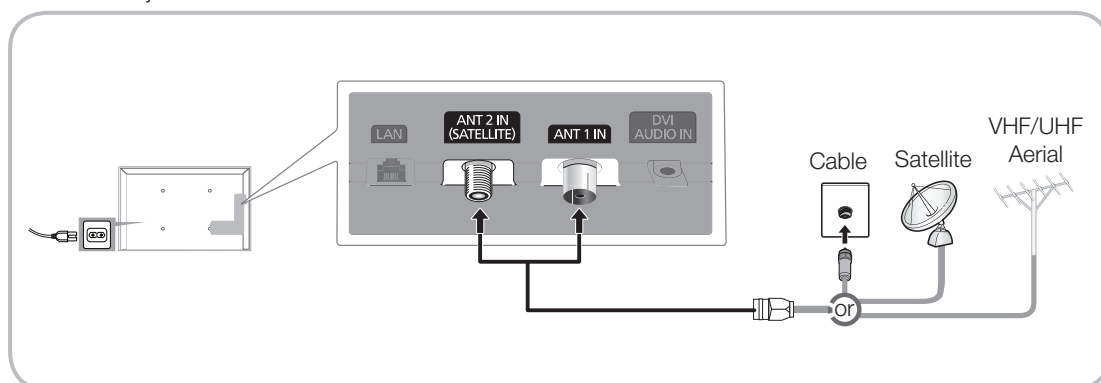
- To close the **Menu**, **Smart Hub**, or **Source**, press the Controller for more than 1 second.

## Standby mode

Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

## Connecting to an Aerial

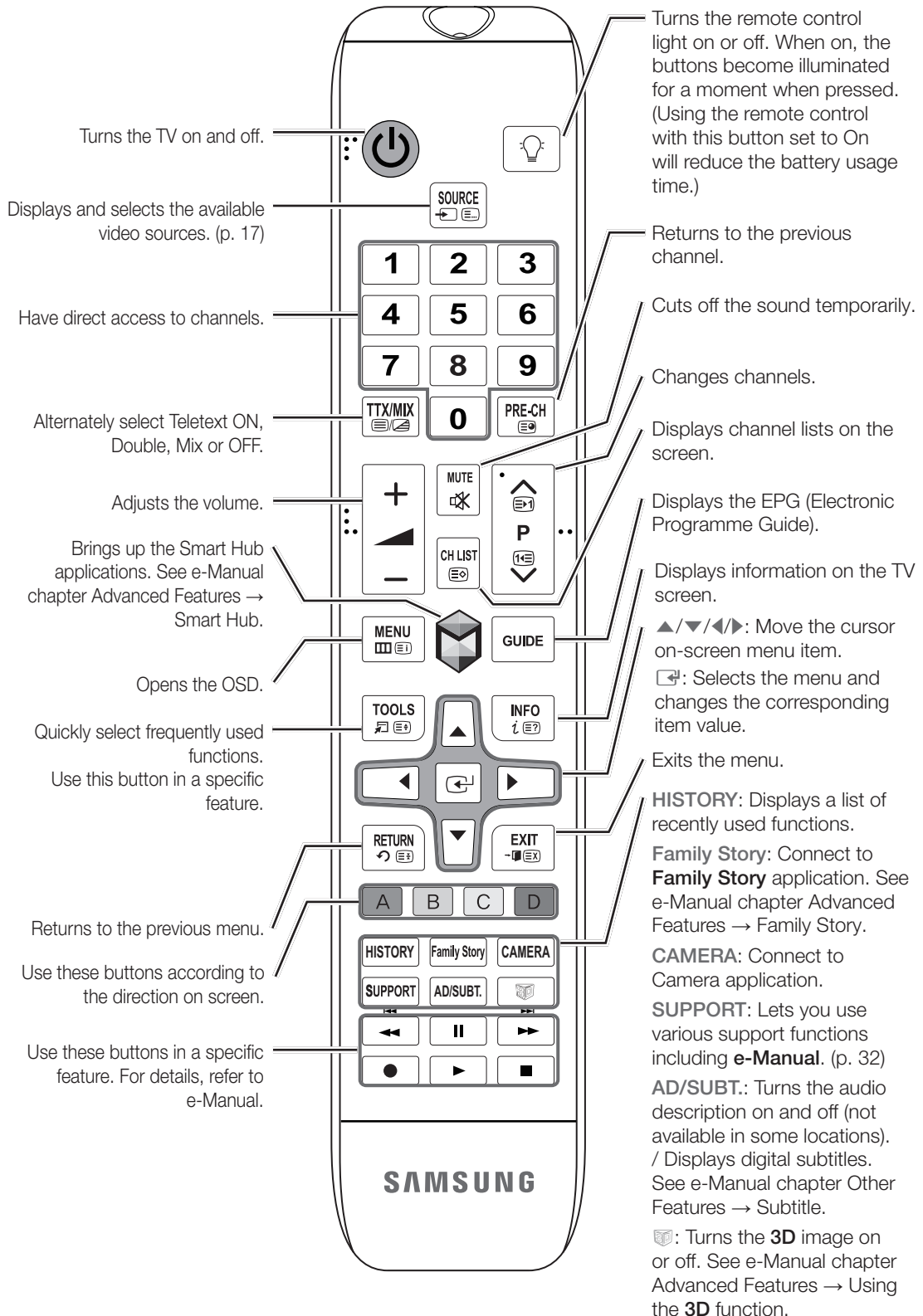
- ✎ Plug the power cord into a wall outlet only after you have made all other connections.
- ✎ If you are connecting your TV to a cable or satellite box using HDMI, Component, or Composite connections, you do not need to connect the ANT IN jack to an aerial or a cable connection.
- ✎ Using two-way radio mobile and portable units or amateur radio or AM radio near your TV may cause the TV to malfunction.
- ✎ Use caution when you move or swivel the TV if the aerial cable is tightly connected. You could break the aerial jack off the TV.





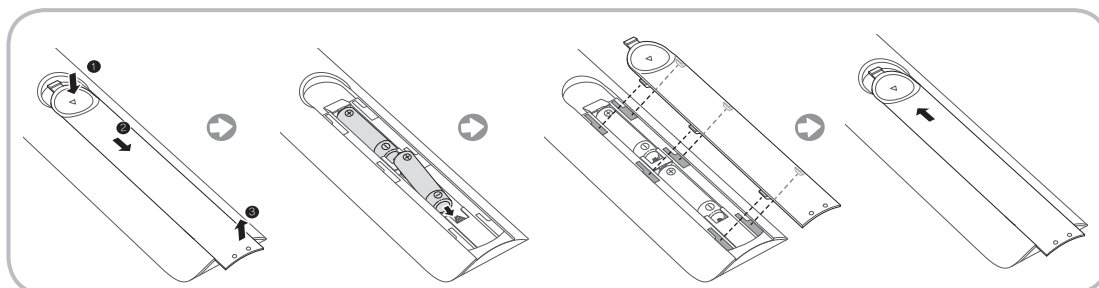
## Viewing the Remote Control

- This is a special remote control for the visually impaired persons and has Braille points on the Power, Channel and Volume buttons.



## Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.



### NOTE

- Install the batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using when near special fluorescent lights or neon signs.
- The colour and shape may vary depending on the model.

## Setup (Initial Setup)

When you turn the TV on for the first time, a sequence of prompts and screens will assist you in configuring basic settings. To begin **Setup**, press the button on your remote.

**Setup** is available only when the input source is set to TV. See "Changing the Input Source" (p. 17).

To return to the previous step in the **Setup** sequence, Select **Previous**.

Before you begin, make sure you have connected the TV to an aerial or a cable connection and that the TV is plugged in. (p. 8).

To start the **Setup** select **Start**.

1	<b>Menu Language:</b> Select a Language.	Select a menu language you want using your remote, and then select <b>Next</b> . The TV will display a menu using the selected language after next step.
2	<b>Use Mode:</b> Select the Home Use Mode.	Select <b>Home Use</b> using your remote, and then select <b>Next</b> . <b>Store Demo</b> mode is for retail environments.
3	<b>Network Settings:</b> Configure network settings To connect later, select <b>Skip</b> .	To set up your network connection, select <b>Next</b> using your remote. If you do not know your network set up information or want to set to it later, select <b>Skip</b> . For more detailed information, refer to "Setting up the Wired or Wireless Network" in the e-Manual for set up requirements and instructions, and the Network Connection section of this manual (p. 25). You can set up the network connection later using the <b>Network</b> menu.
4	<b>Software Upgrade:</b> Upgrading the software to latest version To upgrade later, select <b>Skip</b> .	Select <b>Next</b> to upgrade TV software. Your TV will automatically upgrade, if your TV need a software upgrade. If you want to upgrade later, select the <b>Skip</b> . For more information, refer to <b>Software Upgrade</b> (Preference Features → Support Menu) in the e-Manual. This may take some time, depending on network status.

<b>5</b>	<b>Select Country.</b> (Depending on the country)	<p>Select the appropriate country.</p> <p>✎ After selecting the country in the Country menu, some models may proceed with an additional option to setup the pin number.</p>
<b>6</b>	<b>Auto Tuning (1):</b> Selecting how you watch your TV	<p>Let's find and store channels on your TV. Do you need to search for channels?</p> <ul style="list-style-type: none"> <li>• <b>Yes, I need to.:</b> All the channels available will be found and stored on your TV.</li> <li>• <b>No, I don't need to.:</b> My set-top box provides all the channels that are available, so I don't need to search for channels.</li> </ul>
<b>7</b>	<b>Auto Tuning (2):</b> Selecting a search options and <b>Region Selection</b> (Depending on the country)	<p>Select the channel source to memorise. When setting the aerial source to <b>Cable</b>, a step appears allowing you to assign numerical values (channel frequencies) to the channels. For more information, refer to <b>Auto Tuning</b> (Channel Menu → Memorizing Channels) in the e-Manual.</p> <p>✎ When <b>Air</b> or <b>Cable</b> is selected first: After all <b>Air</b> or <b>Cable</b> channels are stored, the step for storing <b>Satellite</b> channels is displayed.</p> <p>✎ When <b>Satellite</b> is selected first: After all <b>Satellite</b> channels are stored, the step for storing <b>Air</b> or <b>Cable</b> channels is displayed.</p> <p>✎ Select <b>Stop</b> at any time to interrupt the memorization process.</p> <ul style="list-style-type: none"> <li>• <b>Auto:</b> Set the current time automatically.</li> <li>• <b>Manual:</b> Allows you to manually set the current date and time.</li> </ul>
<b>8</b>	<b>Clock:</b> Setting the Clock Mode	
<b>9</b>	<b>Time Zone</b> (Depending on the country): Setting the your Time Zone	<p>This step is only available when the clock mode is set to <b>Auto</b>.</p> <ul style="list-style-type: none"> <li>• <b>Auto:</b> Set the time zone automatically.</li> <li>• <b>Manual:</b> Set the time zone manually.</li> </ul> <p>✎ If you selected <b>Manual</b>, you can select whether to turn DST (Daylight Savings Time) <b>On</b> or <b>Off</b>. (Depending on the country)</p> <p>✎ You can turn the <b>Voice and motion control</b> function <b>On</b> or <b>Off</b>. Select Off or On, and then select <b>Next</b>. For more detailed information, refer to "SMART Interaction" (p.17)</p>
<b>10</b>	<b>Voice and motion control:</b> Setting the Voice and motion control function.	
<b>11</b>	<b>Setup Complete</b>	<p>Select <b>Close</b> to finish.</p> <p>✎ The completed settings are displayed.</p>
<b>12</b>	Set the Universal Remote	<ol style="list-style-type: none"> <li>1. Turn on the <b>POWER</b> button on the bottom of the IR Blaster, and then press the <b>PAIRING</b> button.</li> <li>2. Select <b>Yes</b> to start the Universal Remote Setup.</li> </ol> <p>✎ For more detailed information about the Universal Remote Setup, refer to "Setting up the Universal Remote Control" section in the manual (page 30).</p>

### If You Want to Reset This Feature...

**Menu → System → Setup**

Select **System - Setup** (Initial Setup). Enter your 4 digit PIN number. The default PIN number is "0-0-0-0". If you want to change the PIN number, use the **Change PIN** function.

You should do **Setup (Menu → System)** again at home although you did in shop.

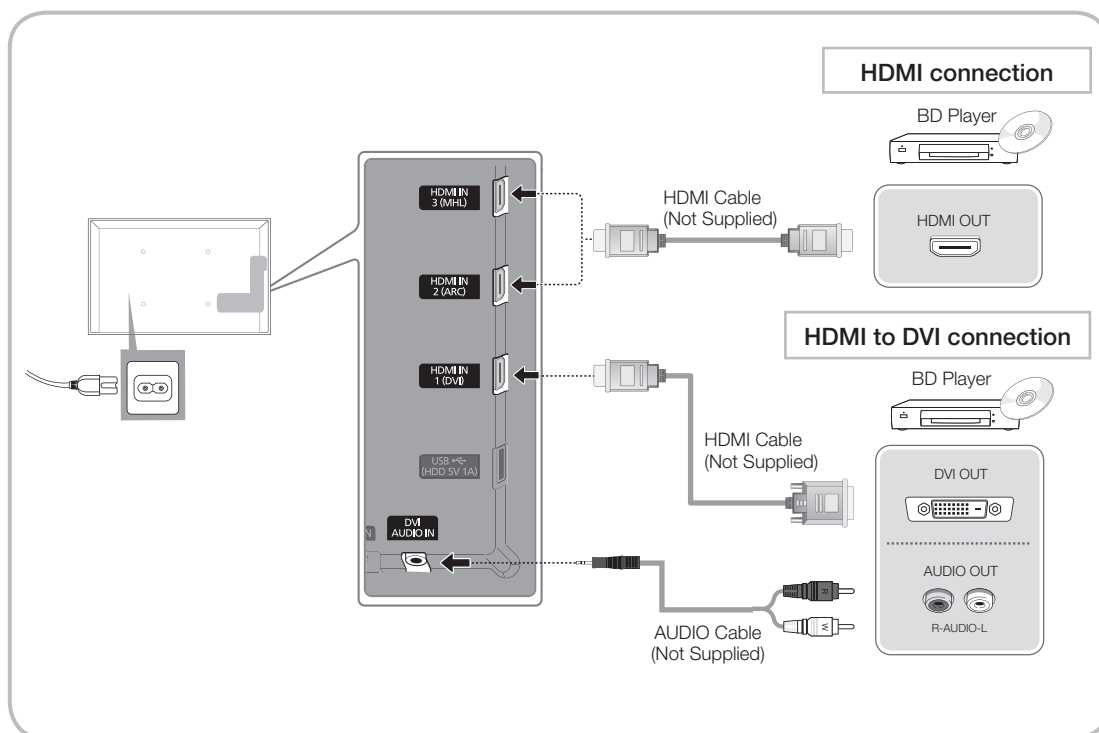
✎ If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to "0-0-0-0": **MUTE** → 8 → 2 → 4 → **POWER** (on).

## Connecting to AV Devices (Blu-ray Players, DVD Players, etc.)

### Using an HDMI Cable for an HD connection (up to 1080p, HD digital signals)

For the best quality HD picture, we recommend using an HDMI connection.


Use with DVD players, Blu-ray players, HD cable boxes, and HD Set-Top-Box satellite receivers.

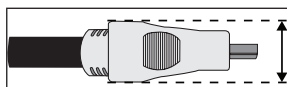


#### HDMI IN 1 (DVI), HDMI IN 2 (ARC), HDMI IN 3 (MHL)

- For the best picture and audio quality, connect digital devices to the TV using HDMI cables.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
  - To connect the TV to a digital device that does not support HDMI output, use an HDMI to DVI cable and audio cables.
- If you connect an external device to the TV that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- We recommend using a basic high-speed HDMI cable or an HDMI cable that is Ethernet compatible. Note that this product does not support the Ethernet function via HDMI.
- This product supports the 3D and ARC (Audio Return Channel) functions via an HDMI cable. Note that the ARC function is supported by the **HDMI IN 2 (ARC)** port only.
  - If **3D Auto View** is set to **On**, some functions such as SMART HUB may be disabled. In this case, set **3D Auto View** or **3D Mode** to **Off**.

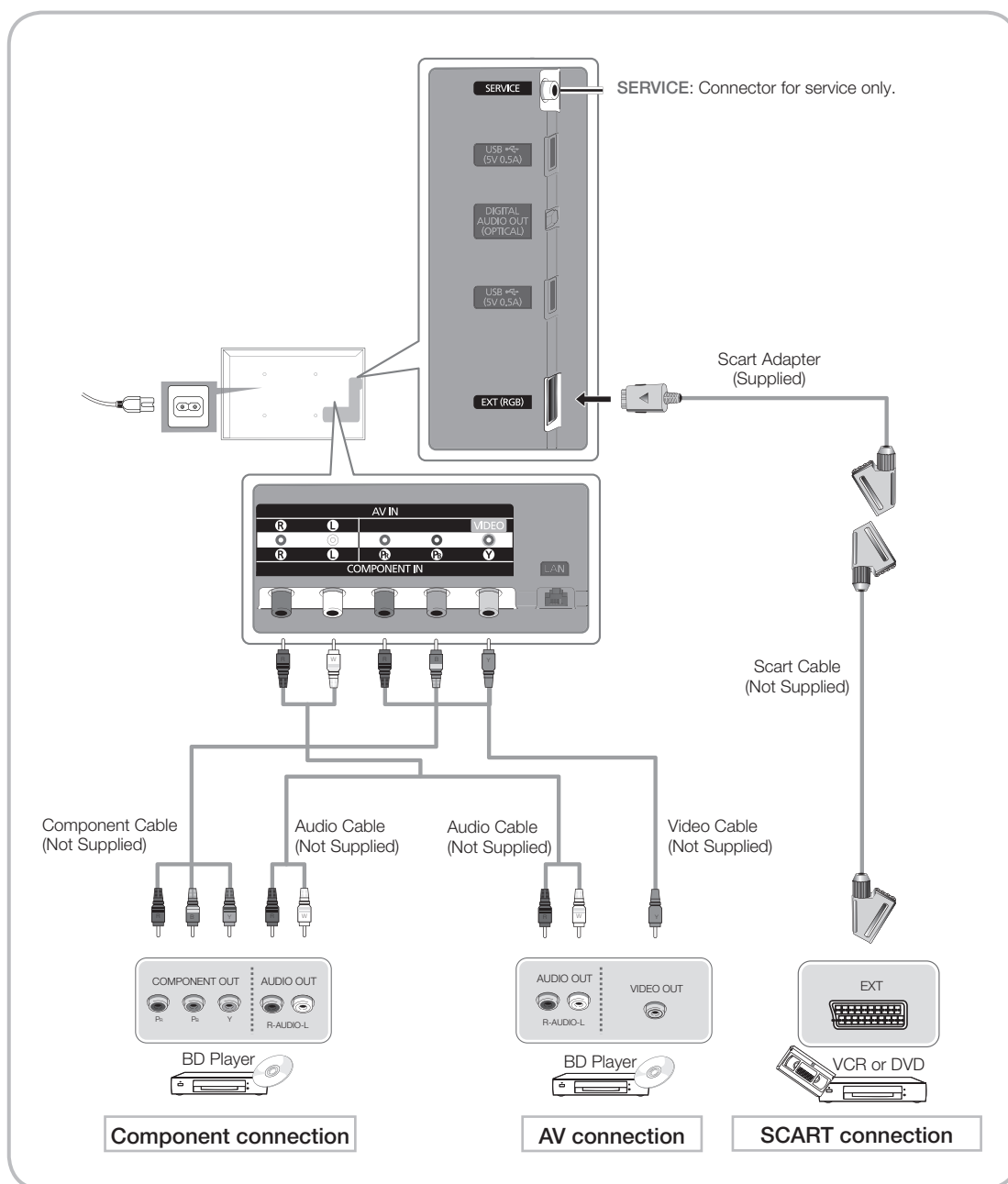
- The ARC function allows digital audio to output via the **HDMI IN 2 (ARC)** port on the TV. It can be enabled only when the TV is connected with an audio receiver that supports the ARC function.
- This product supports the Mobile High-Definition Link (MHL) function via an HDMI-MHL cable. Note that the MHL function is supported by the **HDMI IN 3 (MHL)** port only.
- The MHL function lets you display a mobile device's screen via the **HDMI IN 3 (MHL)** port on the TV. It can be enabled only when the TV is connected with a mobile device that supports the MHL function. For more detailed information, see "Using the MHL function" in e-Manual.
- When you use MHL devices via a MHL cable, **Picture Size** is set to **Screen Fit** automatically. But if you use MHL devices via an HDMI cable, **Picture Size** is not set to **Screen Fit** automatically. To view an original size, select **Screen Fit** in the **Picture Size** menu (**Menu** → **Picture** → **Picture Size**).
- If you use MHL devices via an HDMI cable, The TV will be recognized as the HDMI input. In this case, the TV may work differently than when you use MHL devices via a MHL cable.

 For best cable connection to this product, be sure to use cables with a maximum thickness as below:



- Maximum thickness - 0.55 inches (14mm)

## Using a Component (up to 1080p) or an Audio/Video (480i only) and a Scart Cable

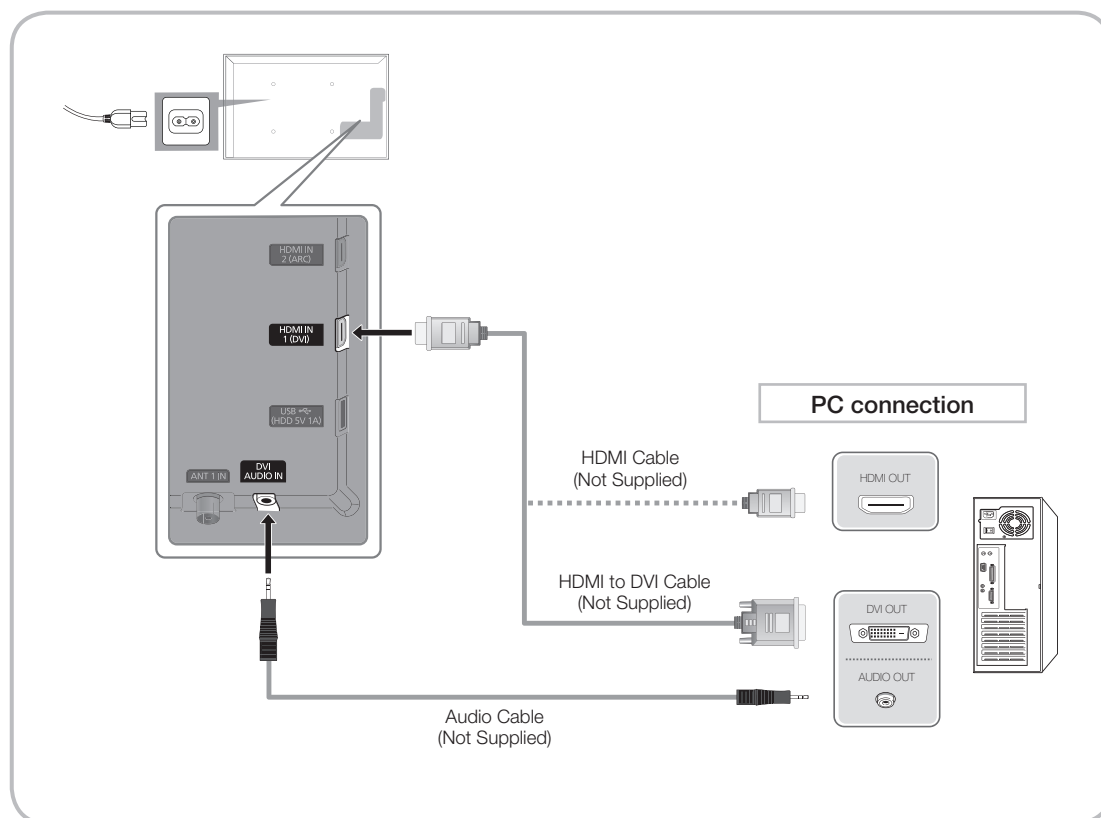


- In Ext. mode, DTV Out supports MPEG SD Video and Audio only.
- When you connect a Video cable to **AV IN 1**, the Colour of the **AV IN 1 [VIDEO]** jack (green) will not match the video cable (yellow).
- To obtain the best picture quality, the Component connection is recommended over the A/V connection.

## Connecting to a PC

### Using an HDMI cable or an HDMI to DVI cable

- ✎ Your PC may not support an HDMI connection.
- ✎ Use your PC speakers for audio.

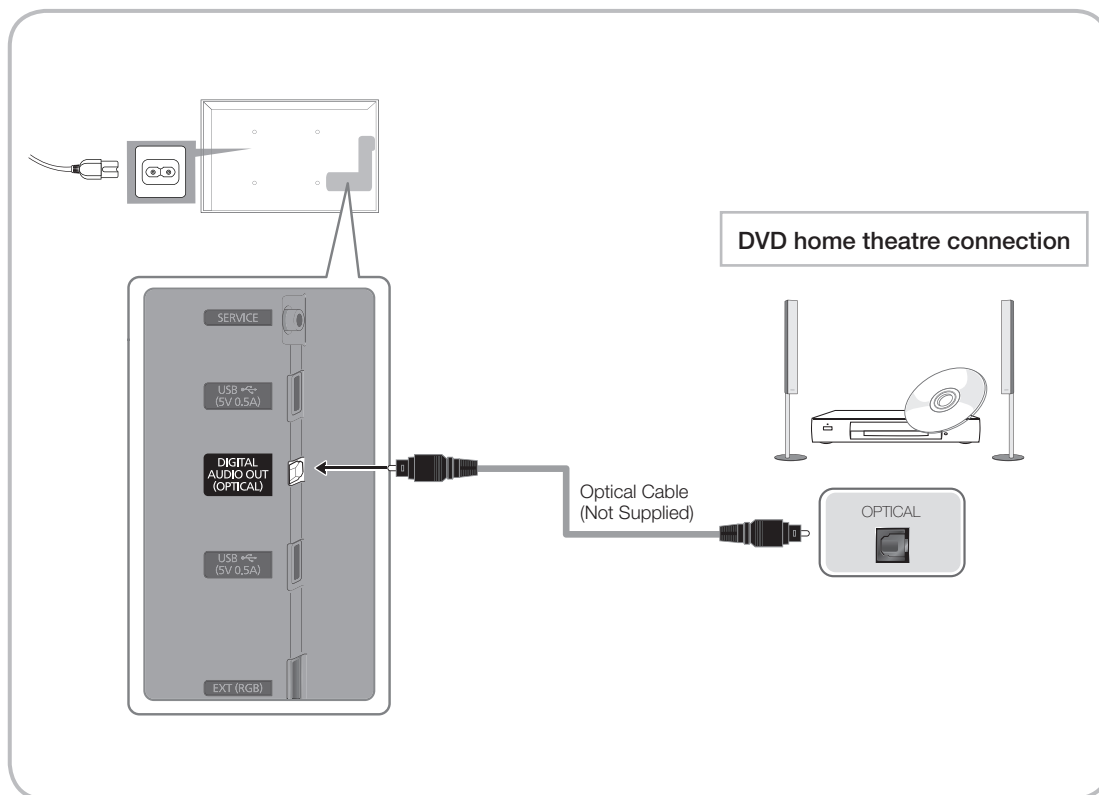


The optimal resolution is 1920 X 1080 @ 60 Hz. See the Display Resolution page for all available resolutions (page 38).

#### NOTE

- For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- For PCs with DVI video out jacks, use an HDMI to DVI cable to connect the DVI out on the PC to the **HDMI IN 1 (DVI)** jack on the TV. Use the PC's speakers for audio.
- PC (D-Sub) input is not supported.

## Audio Connections – Using and Optical (Digital) or a Headphone Connection



### DIGITAL AUDIO OUT (OPTICAL)

- When a digital audio system is connected to the DIGITAL AUDIO OUT (OPTICAL) jack, decrease the volume of both the TV and the system.
- 5.1 CH (channel) audio is available when the TV is connected to an external device supporting 5.1 CH.
- When the receiver (home theatre) is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the home theatre receiver. When the source is a digital component such as a DVD / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and is connected to the TV via HDMI, only 2 CH audio will be heard from the home theatre receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theatre.

**Headphones** : You can connect your headphones to the headphones output on your set. While the headphones are connected, the sound from the built-in speakers will be disabled.

- Sound function may be restricted when connecting headphones to the TV.
- Headphone volume and TV volume are adjusted separately.
- The headphones jack supports only the 3 conductor tip-ring-sleeve (TRS) type.




## Changing the Input Source



### Source


#### → Source

When you are watching TV and you want to watch a movie on your DVD player or Blu-ray player or switch to your cable box or STB satellite receiver, you need to change the Source.

#### ■ TV / Ext. / HDMI1/DVI / HDMI2 / HDMI3 / AV / Component

1. Press the  button on your remote. The **Smart Hub** screen appears.
2. Select **Source**. The **Source** screen appears.
3. Select a desired external input source.


 Alternatively, you can access the **Source** screen by selecting the **Source**  button on your standard remote or selecting **Source** with the Smart Touch Control (see page 26).

 You can only choose external devices that are connected to the TV. In the displayed **Source** list, connected inputs are highlighted.

### How to Use Edit Name

**Edit Name** lets you associate a device name to an input source. To access **Edit Name**, open the **Tools** menu when the **Source** list is displayed. The following selections appear under **Edit Name**:

■ **VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA**: Select an input jack, and then select the name of the device connected to that jack from the list that appears. For example, if you have your **Blu-ray** player attached to **HDMI IN 2**, select **Blu-ray** for that input.

 If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI cable, assign **PC** to **HDMI1/DVI** in **Edit Name**.

 If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI PC** to **HDMI1/DVI** in **Edit Name**.

 If you connect an AV device to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI Devices** to **HDMI1/DVI** in **Edit Name**.

### Information

You can see detailed information about the selected external device.

### Refresh

If the external devices are not displayed in the **Source** list, open the **Tools** menu, and then select **Refresh**. The list will display all connected devices.

 Alternatively, you can refresh the **Source** list screen by selecting **A** using your remote

 Refresh button/function only available if **Anynet+ (HDMI-CEC)** function is set to **On**.

## SMART Interaction

Using this function, you can access and control menu options and functions using speech, gestures or face recognition.

### INFORMATION BOOKLET DISCLAIMER

- **Face Recognition Log-in**

In order for **Face recognition** to function, a thumbnail image of your face will be stored in your TV for logging-in purposes.

Logging into the **Smart Hub** using **Face recognition** may be less secure than using an ID and password.

- **TV Camera Usage**

Before using the TV Camera, you should be aware that under some circumstances and under certain legal conditions your misuse of the TV Camera can result in legal liability for you. By using the TV Camera, you agree that you will not use the camera (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.


## Voice Control


You can use only your voice to switch the channel or adjust the volume level while focusing on the TV screen, which removes the need for the conventional remote control.


### Menu → System → Voice and motion control → Voice Control

Enable or disable the voice recognition function. Lets you access and control menu options and functions using speech.







 For accurated voice recognition, refer to the Standard Voice Command list at the Samsung web site ([www.samsung.com](http://www.samsung.com) → support → Manuals & Downloads).


 **Voice Control** function recognition can be affected by unclear pronunciation, voice level, or surrounding noise.

 To use **Voice Control**, you must pronounce words and phrases clearly and correctly in the language you selected in **Language**.

 Ambient noise may cause **Voice Control** to malfunction. (Appropriate surrounding noise: Below 40dB)

Your TV can "hear" your voice commands in two ways:

- Using the TV's microphone. (Distant Recognition)
-  We recommend using **Voice Control** function within about 13 ft of your TV. You can check the usable distance by using **Voice Control Environment Test** (**System** → **Voice and motion control** → **Voice Control** → **Voice Control Environment Test**).
- Using the **VOICE**  button on your remote. (Close Proximity Recognition)
-  When you use the TV's microphone, the words may not be recognized because of ambient noise. If this occurs, try using the **VOICE**  button on your remote. The TV will be able to recognize a voice command more easily.
-  The **VOICE**  button on your remote is always activated. If you want to use the TV's microphone, turn on **Voice Control** (**System** → **Voice and motion control** → **Voice Control**).

 If a menu option or function is not supported by the **Voice Control** function, we suggest trying the **Motion control** function. To use the **Motion control**, raise your hand while opening it toward the screen, hold it for a moment and then wave it 3–4 times to the left and right. **Motion control** starts. If the **Motion control** starts, the cursor is displayed at the center of the screen and the **Motion guide bar size** is at the bottom of the screen.

## ■ Voice Control

Turns the **Voice Control** function on or off.

 The **VOICE** button on your remote is always activated.

## ■ Language

Select the recognition language you want to use.

## ■ Trigger words

You can select the **Trigger Words** that start the **Voice Control** function. Alternatively you can turn on your TV using the **Trigger Words** if **Voice Control** function is set to **On**.

If the **Trigger Words** is set to Hi TV, say **Hi TV Power On**.

If the **Trigger Words** is set to Smart TV, say **Smart TV Power On**.

## ■ Voice command bar size

Set the **Voice command bar size** mode to **Minimum** or **Full**.

**Minimum** displays the least number of words and phrases you can use.

**Full** displays all the words and phrases.



## ■ Voice Sensitivity

Set the sensitivity of Voice recognition.


- **Howling**: Set echo level.
- **Recognition responsiveness**: Set the responsiveness level of Voice recognition.




## ■ Voice Control Environment Test

You can test the noise level on the TV microphone.

- **Noise Test**: This test checks the noise level of the TV microphone. Select **Next** using your remote. The test will start and should only take a few seconds. Please keep as quiet as possible during the test.
- **Mic & Speaker Test**: This test checks the noise level of the TV microphone and speaker. Select **Start** using your remote. The test will start and should only take a few seconds. Please keep as quiet as possible during the test.
  -  Available only when **Speaker Select** is set to **TV Speaker**.
- **Voice Control Test**: This test checks the volume level and clarity of your voice when using **Voice Control**. Select **Start** using your remote. The test will start. Please say a guide message as loud and clearly as you can to complete this test.
  -  If the test is not completed, select **Retest**, and then say a guide message loudly and clearly again.


### To use the Voice Control function, follow these steps:

 If **Voice Control** function is set to **On**, the TV may be turned on automatically by effect of the ambient environment.

1. Speak the **Trigger words** that you selected using the microphone embedded in the TV or press and hold the **VOICE** button on your remote. The TV displays the **Voice Control Environment Test**.
  -  If you use the **Voice Control**, the volume will be set to 5 automatically.
2. Speak a word or phrase listed in the **Voice Control Environment Test**. If you use the **VOICE** button on your remote, release the button.
  -  Pronounce the word or phrase clearly and correctly in the language you selected in **Language**.
3. Wait until recognition is complete, and then speak the next command.
  -  To exit the **Voice Control** mode, speak a **Trigger words** or "Cancel" using the TV's microphone, or press the **VOICE** button on your remote again.

## Using the Voice Text Input Mode

The Voice Text Input mode is useful especially when you search for a long sentence from sources (e.g. applications, **Your Video**, **AllShare Play**).

1. Speak "Search All" while in the **Voice Control** mode.
  - ✎ When you use a **QWERTY** keypad screen, you can use the Voice Text Input Mode. Speak the **Trigger words** that you selected using the microphone embedded in the TV or press and hold the **VOICE**  button on your remote.
2. Say the word or phrase you wish to search for.
3. The TV executes the spoken function
  - ✎ **Voice Control** performance levels will vary based on the language spoken.

## Major commands to control the TV operations by voice

- **TV Power Off**
  - turn off the TV.
- **Source**
  - The **Source** window appears.
- **Channel Up/Down**
  - switch the channel.
- **Volume Up/Down**
  - adjust the volume level.
- **Mute On/Off**
  - mute the sound or release it.

## Motion control

Use a specific gesture to switch the channel or adjust the volume level as well as to move the mouse pointer to a desired position while in web surfing with **Smart Hub**.

**Menu → System → Voice and motion control → Motion control**

Enable or disable the **Motion control** function. Lets you control your TV by moving the TV cursor using specific gestures.



✎ Some applications may not support **Motion control**.

✎ We recommend using **Motion control** function within about 5 - 13 ft of your TV. TV Camera's recognition range may differ depending on the angle of camera or other conditions. You can check the recognition range of TV camera by using **Motion control environment test (System → Voice and motion control → Motion control → Motion control environment test)**.

- **Motion control**
  - Turns the **Motion control** function on or off.
- **Motion guide bar size**
  - Set the **Motion guide bar size** mode between **Minimum** or **Full**.
- **Motion control environment test**
  - You can test the brightness of the room and the camera angle.

- **Brightness Test:** This test checks to see if your room is bright enough for **Motion control** to work properly. Select **Start** using your remote. The test will start and should take only a few seconds.
- **Camera Angle Test:** Start **Camera Angle Test** Select **Start** using your remote. Please put yourself in the rectangle on the screen by adjusting the camera or moving around. If you are not located in the correct position, the test may not work properly. When done, please spread your hand in the direction of the camera, and shake it three or four times from side to side.

### To use the Motion control function, follow these steps:

1. To use the **Motion control**, raise your hand while opening it toward the screen, hold it for a moment and then wave it 3 – 4 time to the left and right. **Motion control** starts. If the **Motion control** starts, the cursor is displayed at the center of the screen and the **Motion guide bar size** is at the bottom of the screen.
  2. Control the TV using your hands.
-  Note that the **Motion control** function closes if your hands go out of the camera range.
-  While using the **Motion control**, if you use the other device (i.e. remote control, keyboard, etc.), **Motion control** closes.

### Controlling the TV with your hands using gestures

#### ■ **Access Motion Control**

- **Action:** Spread your hand in the direction of the camera, and shake it three or four times from side to side.

#### ■ **Pointing Navigation**

Moves the cursor to the position you want.

- **Action:** Spread your hand and guide the cursor to position you want.

#### ■ **Run**

Selects an item or executes a command that is indicated by the cursor or is highlighted.

- **Action:** Clench your fist.

#### ■ **Back**

Return to the previous menu.


- **Action:** Spread your hand and rotate it counter clockwise.

#### ■ **Channel / Volume Control**

Changes the channel or adjust the volume.

 If you use the **Motion control** function while watching a channel, the channel / volume control screen appears.

- **Action:** Use the **Pointing Navigation** gesture to move the cursor to the channel or volume controller, and then use the **Run** gesture to adjust the channel or volume.

 If you use the **Run** gesture once, it has the same effect as pressing a button on your remote. If you hold the **Run** gesture, it has the same effect as pressing and holding a button on your remote.

#### ■ **Scroll**

Scroll the page in the direction you want. For example, suppose that you want to scroll down.

 Some applications may not support this function.

1. Move the cursor to the bottom of the screen (page scroll zone) using the **Pointing Navigation** gesture.
2. Move the cursor to the centre of the screen using the **Pointing Navigation** gesture.
3. The page will move down.

## Face recognition

Once you register your face through the camera installed on the TV, you can use the face recognition function to access the contents provided by **Smart Hub** that requires your login information.

☞ → **Tools** → **Settings** → **Account Manager** → **Change account information** → **Register face**

Enable or disable the Face recognition function. Lets you register your face in your Samsung account. Also, you can log in to the Samsung account using the **Face recognition** function without inputting your account ID or your account password.

☞ You can register your face in only one account.

### To register your face in your Samsung account, follow these steps:

☞ To use this function, you must log into **Smart Hub**. If you don't have a **Samsung Account**, you should create one before using this function. To create your **Samsung Account**, refer to "Creating an Account" (Advanced Features → Smart Hub) in the e-Manual.

1. On the **Smart Hub** screen, open the **Tools** menu using your remote, and then select **Settings**.
2. Select **Account Manager**. The **Account Manager** screen appears.
3. Select **Change account information**. The **Change account information** screen appears.
4. Select **Register face**. If you agree to use facial recognition, select **OK**.
5. Enter your account password.
6. Move your face into the facial lines at the centre of the screen, and then wait until the facial lines changes from red to green.

☞ If **Face recognition** fails, select **Retry** and try again.

7. When finished, your face is now registered in your Samsung account.

### To log in to your Samsung account using Face recognition, follow these steps:

If you use **Face recognition** to log into **Smart Hub**, it may be less secure than logging in with a password.

1. With the **Smart Hub** screen displayed, select **▲** using your remote. The **ID/password** screen appears.
2. Select **Face Recognition Mode**. The **Face recognition** screen appears.

☞ To return to the **ID/password** screen, select **Password mode**.

3. The TV starts **Face recognition**. Face the front of the TV screen. The TV will recognize your face automatically.

☞ If the TV fails to recognize your face, try again.

4. The TV logs you into your Samsung account automatically.

☞ If the TV recognizes two or more registered faces, the Samsung account list appears. Select your account to log in.

☞ If your face is unregistered, you can register your face in your Samsung account. Follow steps 4 through 5 in the "To register your face to your Samsung account" procedure above.

☞ If you have no account, you can create one. For more detailed information, refer to "Creating an Account" (Advanced Features → Smart Hub) in the e-Manual.

## Connecting to a COMMON INTERFACE slot (Your TV viewing Card Slot)

### Attaching the CI Card Adapter

Attach the adapter as shown below.

To connect the CI CARD Adapter, follow these steps.

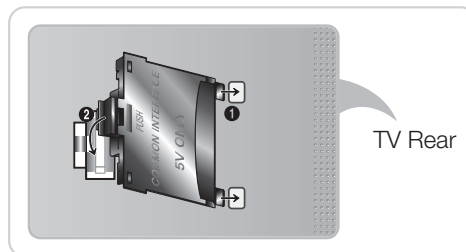
- ✎ We recommend attaching the adapter before installing the wall mount, or inserting the “CI or CI+ CARD”.
- ✎ To install the CI card adapter, please remove the sticker attached to the TV.

1. Insert the CI CARD Adapter into the two holes on the product ❶.

✎ Please find two holes on the rear of the TV. The two holes are beside the **COMMON INTERFACE** port.

2. Connect the CI CARD Adapter into the **COMMON INTERFACE** port on the product ❷.

3. Insert the “CI or CI+ CARD”.



To install the CI card adapter, please remove the sticker attached to the TV.

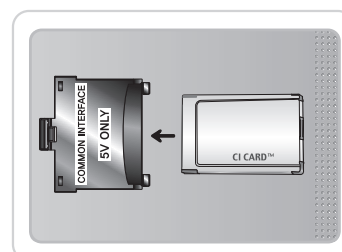


We recommend that you insert the CI card before you mount the TV on a wall. It may be difficult to insert after mounting. Insert the card after attaching the CI Card Adapter on TV. It is difficult to attach the module if you insert the card before attaching.

### Using the “CI or CI+ CARD”

To watch paid channels, the “CI or CI+ CARD” must be inserted.

- If you don't insert the “CI or CI+ CARD”, some channels will display the message “Scrambled Signal”.
- The pairing information containing a telephone number, the “CI or CI+ CARD” ID the Host ID and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the configuration of channel information has finished, the message “Updating Completed” is displayed, indicating the channel list is updated.

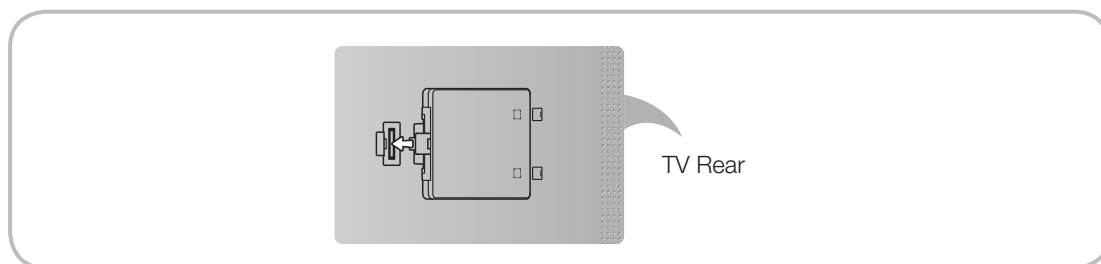


## NOTE

- You must obtain a “CI or CI+ CARD” from a local cable service provider.
- When removing the “CI or CI+ CARD”, carefully pull it out with your hands since dropping the “CI or CI+ CARD” may cause damage to it.
- Insert the “CI or CI+ CARD” in the direction marked on the card.
- The location of the **COMMON INTERFACE** slot may be different depending on the model.
- “CI or CI+ CARD” is not supported in some countries and regions; check with your authorized dealer.
- If you have any problems, please contact a service provider.
- Insert the “CI or CI+ CARD” that supports the current aerial settings. The screen will be distorted or will not be seen.

## The Evolution Kit Slot (Kit Sold Separately)

The evaluation kit is designed so that you can keep upgrading the hardware specifications and apply the latest software version to the television.



This socket is designed to accept an extension device called Evolution Kit. The Evolution Kit enables the TV to run a variety of the latest applications for a better user experience.

The Evolution Kit, which may not be available depending on the product, will be sold separately in 2013 or later.

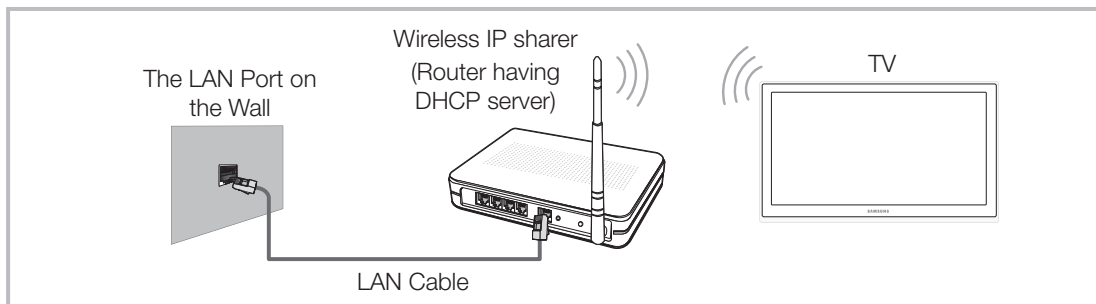


## Network Connection

You can set up your TV so that it can access the SMART TV applications, through your local area network (LAN) using a wired or wireless connection.

### Network Connection - Wireless

You can connect your TV to your LAN through a standard wireless router or modem.



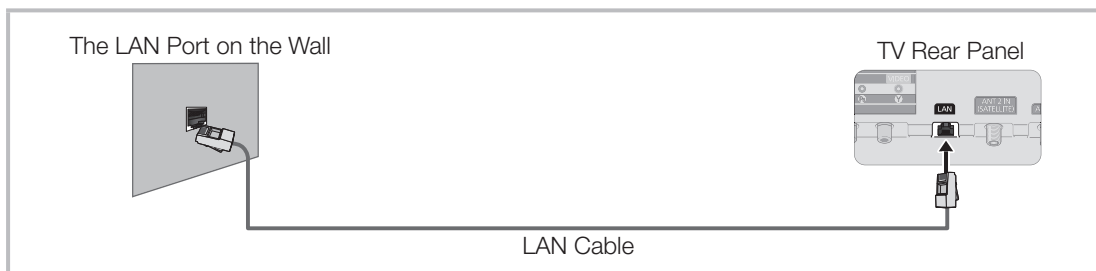
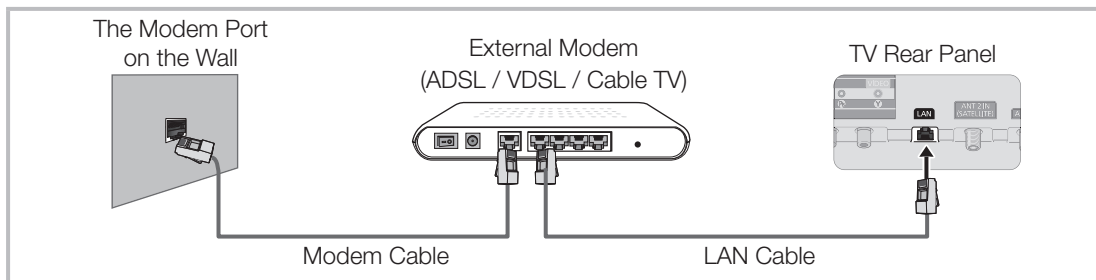
Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play the video over a IEEE 802.11b/g connection, the video may not play smoothly.

Most wireless network systems incorporate a security system that requires devices that access the network through an access point or wireless router (typically a wireless IP Sharer) to transmit an encrypted security code called an access key.

If Pure High-throughput (Greenfield) 802.11n mode is selected and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) for your wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

### Network Connection - Wired

There are two main ways to connect your TV to your network using cable, depending on your network setup. They are illustrated below:

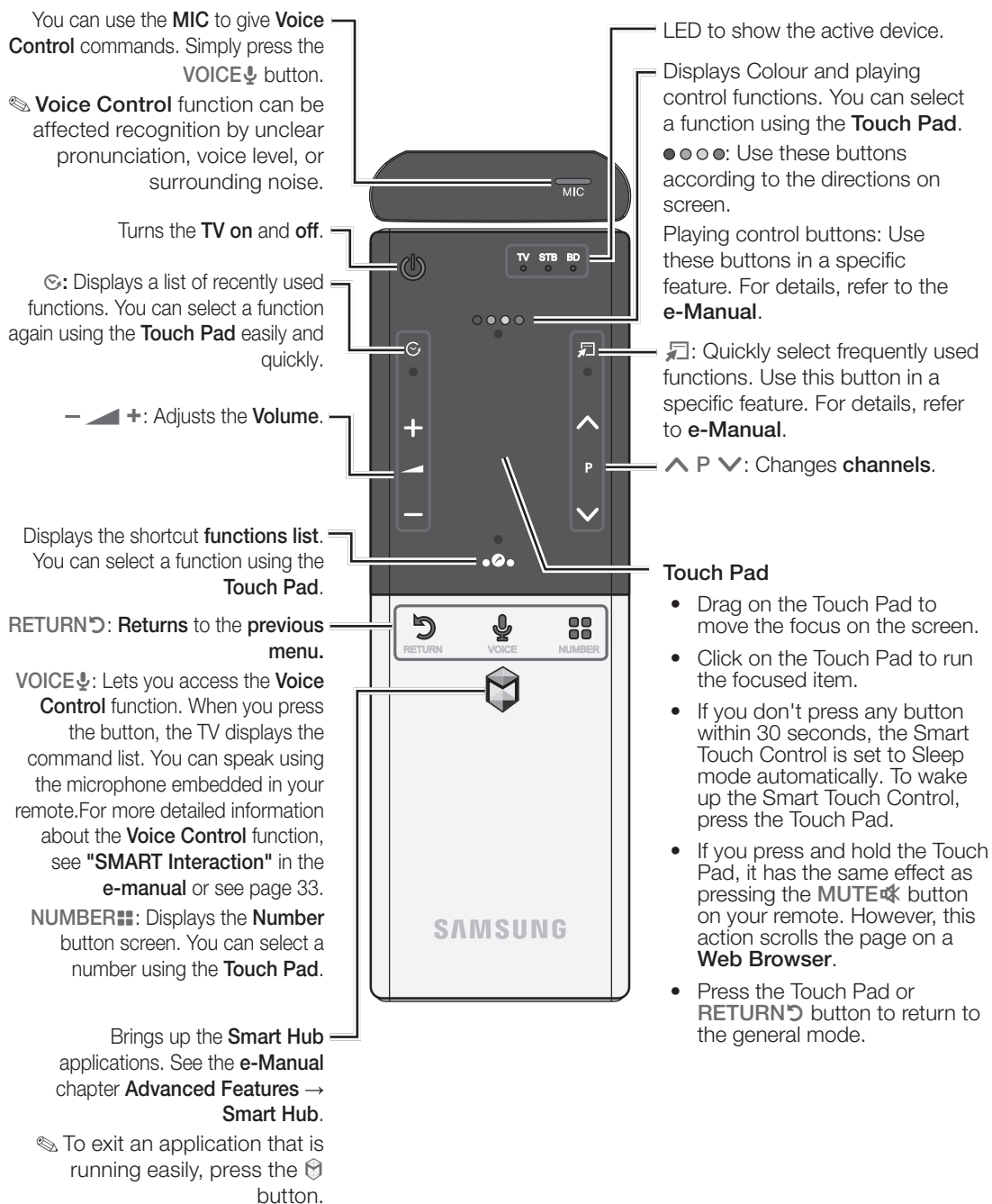


- ✎ The TV does not support network speeds less than or equal to 10Mbps.
- ✎ Use Cat 5 or 6 (STP Type\*) cable for the connection. (\*Shielded Twisted Pair)

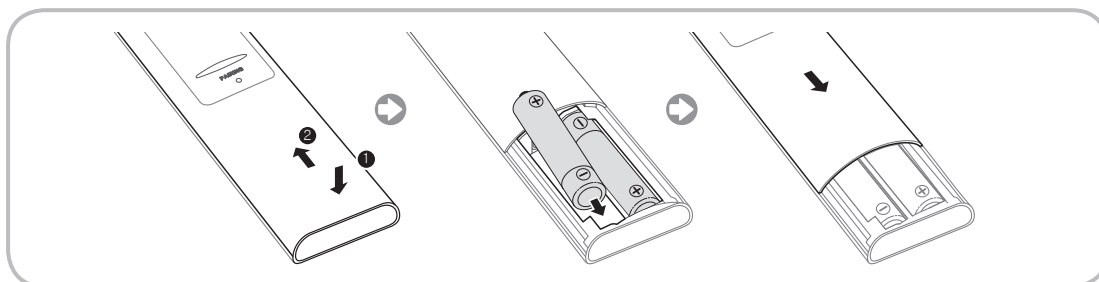
## The Smart Touch Control Guide

Improved user convenience has been provided so that you can switch the channel and adjust the volume with just your fingertips while focusing on the TV screen. In addition, the built-in Touch Pad removes the need for a mouse when you change the menu settings and search for something on the Internet.

For more detailed information about **Smart Touch Control**, see "Using the Smart Touch Control" in **e-Manual**.

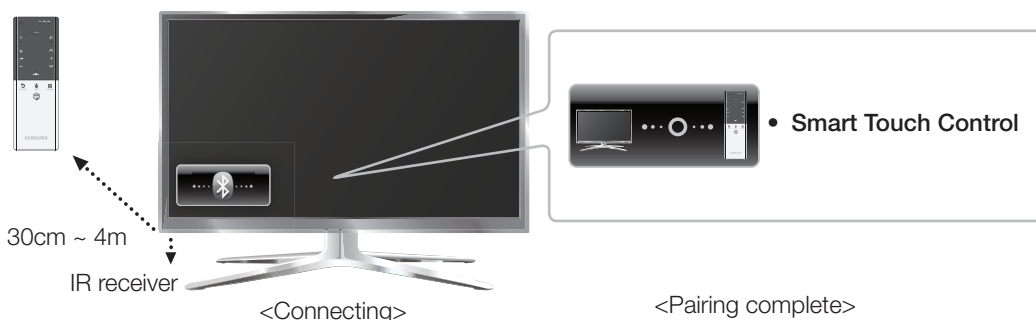


## Installing batteries (Battery size : AA)



1. Press the back of the remote at the very bottom with both thumbs, and then slide the battery cover up in the direction of the arrow.
2. Install two batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
3. Slide the cover down in the direction of the arrow to close the battery cover.

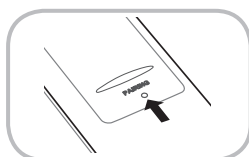
## Initial Pairing



After you have run the Initial Setup on your TV, you should connect your Smart Touch Control to your TV.

1. Point the Smart Touch remote control toward the IR Sensor of the TV and press any key on the Smart Touch remote control.
2. The connection icons appear on the bottom left of the screen, and the TV connects to your Smart Touch Control automatically.

✎ If you want to perform the pairing process again, press the reset button in the centre of the back cover using a pin or the tip of an unbent paper clip. The Smart Touch Control will be initialized.



- Smart Touch Control **PAIRING** Reset button

## Calibrating the Touch Pad


To calibrate the Touch Pad on the Smart Touch Control, follow these steps:


1. Press the **NUMBER** button for 3 seconds. The calibration starts.
2. When done, all the LEDs on the top of the Smart Touch Control blink twice simultaneously.

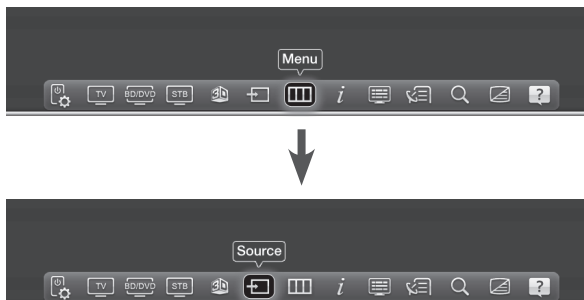
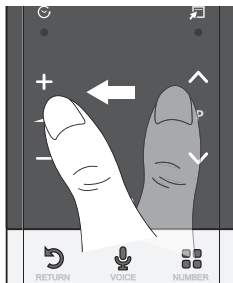
✎ While calibrating, don't touch the Touch Pad.

✎ If the Touch Pad loses accuracy, re-calibrate the Touch Pad by repeating Steps 1 and 2.


## Using the Touch Pad

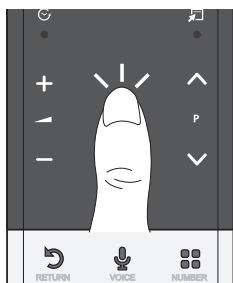
To display the shortcut functions list on the bottom of the screen, press the  button at the bottom of the Touch Pad. This list include **Menu**, **Source**, **CH List**, **3D** and other functions.

To display the colour and playing control functions on the top of the screen, press the  button on the top of the Touch Pad.





**To Move the Highlight:** Rest your finger on the Touch Pad, and then slide it from one side to the other, from top to bottom, or bottom to top.

 To move the Highlight continuously, flick your finger across the Touch Pad from right to left, left to right, top to bottom, or bottom to top.



**To Select an item:** Press the Touch Pad.

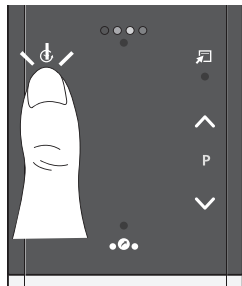
## Using the Mute function

- If you press and hold the Touch Pad, it has same effect as pressing the **MUTE**  button on your remote.
- However, if you press and hold the Touch Pad when using **Web Browser**, the Touch Pad switches to the Scroll mode. When you press the Touch Pad again, the Scroll mode switches general mode.
- Press the Touch Pad or **RETURN**  button to return to the general mode.

### To Enter a channel number through Smart Touch Control

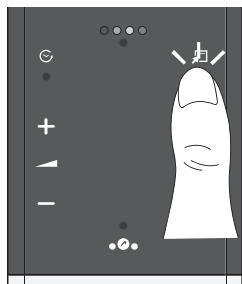
1. While watching a broadcast, press the **NUMBER** button on the Smart Touch Control. The TV displays the number button screen.
2. Using the Touch Pad, highlight a number, and then press the Touch Pad. The TV displays a list of channels that start with the number you selected.
3. Using the Touch Pad, highlight the channel in the list you want, and then press the Touch Pad.

You can also change the channel by touching the up or down channel icon on the Touch Pad. If you touch the Touch Pad immediately after, the TV displays the list of memorised channels. Select a channel by moving or flicking your finger up or down, and then pressing the Touch Pad.



### To Display a History of the Channels You Watched

Press the  button on the left side of the Touch Pad.



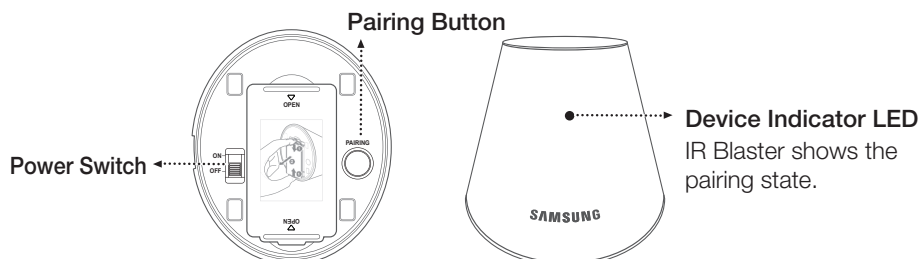
### To Display the Tools Menu

Press the  button on the right side of the Touch Pad.

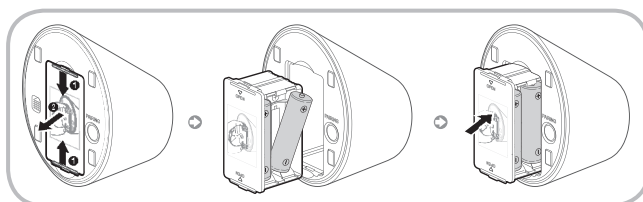
## The IR Blaster Guide

The IR Blaster converts the Smart Touch Control to a universal remote control to operate the devices connected to the TV.

When pressing a button or tapping the Touch Pad on the Smart Touch Control, the IR Blaster takes the command from the Smart Touch Control and sends it to the indicated device as infrared signal.

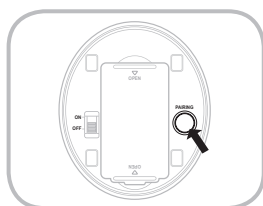
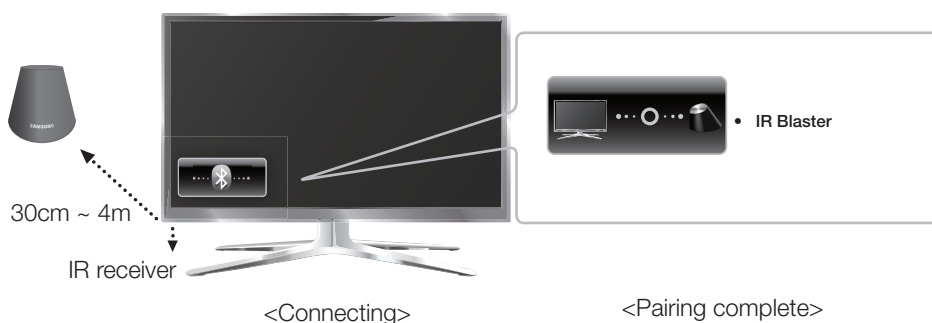


### Installing batteries (Battery size : AA)



1. Hold the both sides of the battery holder and pull it out.
2. Install four batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
3. Push it back.

### Initial Pairing



1. When you turn the IR Blaster on, the LED blinks.
  2. Move the IR Blaster to the direction of your TV's IR receiver, and then press the **PAIRING** button once shortly on the bottom of the IR Blaster.
  3. The connection icons appear on the bottom left of the screen, and the TV connects to IR Blaster automatically.
- ✎ If the connection process failed, please turn off and on the IR Blaster, try again from step2.

✎ To set an Universal Remote Control after pairing an IR Blaster, select **Yes**.

To use IR Blaster, universal remote control setup needs to be complete. Do you want to continue with setup?

OK

Cancel

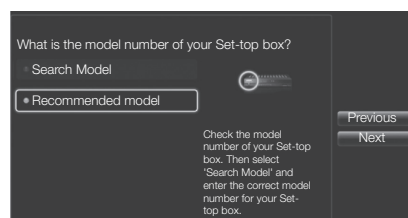
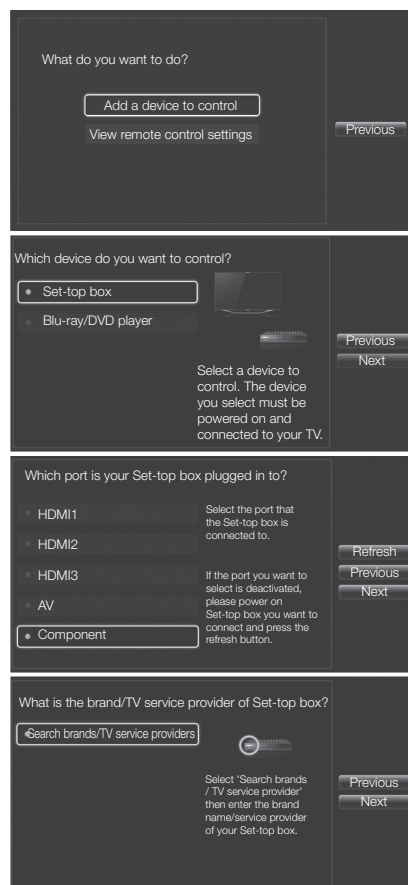
## Setting up Smart touch control to use as a Universal Remote Control

Lets you control a Set-Top-Box (STB) or a BD player or both connected to the TV using your Smart Touch Control. After you connect the device to the TV, the Smart Touch Control can control the navigation, number, and other keys needed to operate and control the device.

- ✎ The Universal Remote Control can adjust TV's volume, but STB's volume cannot be adjusted. Watch STB after adjusting STB's volume to appropriate level.
- ✎ Depending on the version of an application, the **Welcome to Universal Remote Setup.** instructions may differ. In this case, please follow the instructions on the screen.




### To connect the external device to your Smart Touch Control, follow these steps:

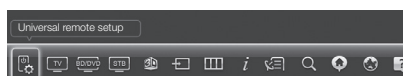
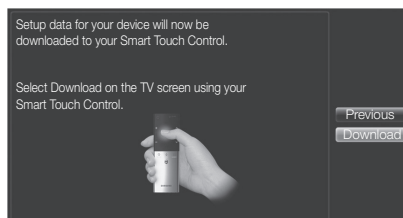
1. Select **Set up a device to control**, and then press the Touch Pad.
2. Select an external device from the connected devices, and then press the Touch Pad.
3. Select the port used to connect the external device, and then press the Touch Pad.
  - ✎ Make sure that the selected device is on. If it is turned off, turn the power on and press **Refresh**.
4. Select **Search brands/TV service providers**, and then press the Touch Pad. A keyboard and an entry field appear. Enter the first few letters of the brand name of your device using the Smart Touch Control, and then select **Done** at the bottom of the keyboard. In the list that appears below the entry field, select the brand name of your device, and then press the Touch Pad.
  - ✎ If you want to search the brand of STB (Set-Top box), you can search the STB by using the brand name or a cable provider.
5. Select **Search model**, and then press the Touch Pad. A keyboard and an entry field appear. Enter the first few letters and numbers of the model name of your device using the Touch Control, and then select **Done** at the bottom of the keyboard. In the list that appears below the entry field, select the model name of your device, and then press the Touch Pad.
  - ✎ If the search for model name does not work properly, search with a part of the model name or use the search for recommended model code.
  - ✎ For more information on the search for recommended model code function, refer to page 32.



6. Select **Download**, and then press the Touch Pad. Download the configuration data for the IR Blaster in the same way.

7. When all the settings are complete, select the **Complete** button and press the Touch Pad.

 To reset IR Blaster and Smart Touch Control, press the  button on Smart Touch Control, and then select **Universal remote setup**. 



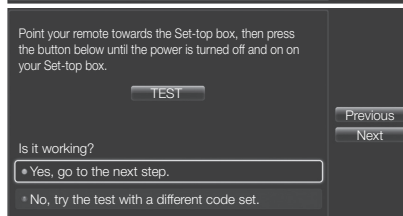
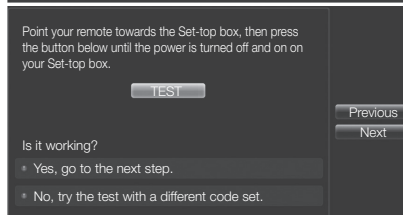
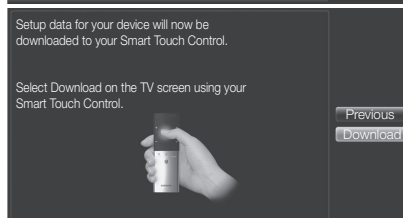
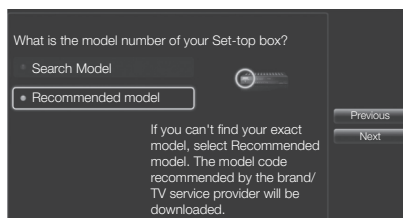
## Using the Search for recommended model code.

1. In the **Search model** step in the integrated remote control setup, select the **Recommended model** and press the Touch Pad.

2. Select **Download** to download the recommended model code.

3. Point the Smart Touch Control forwards to the IR sensor of the external device and press the Touch Pad to test if the device works.

4. Point the Smart Touch Control forwards to the IR sensor of the external device and press the Touch Pad to test if the device works.



 When you use the BD home theater by using Universal Remote, some buttons may not be supported. In this case, we recommend to use **Anynet+ (HDMI-CEC)** function.



# How to view the e-Manual

You can find instructions for your TV's features in the e-Manual. To open the e-Manual, press the **SUPPORT** button on your standard remote or select **Support** (●●● → **Support**) using the Smart Touch Control.

You can also access it through the menu:

**Menu → Support → e-Manual**

When you run the **e-Manual** after you select menu, the manual for the selected menu opens.

## Access the e-Manual

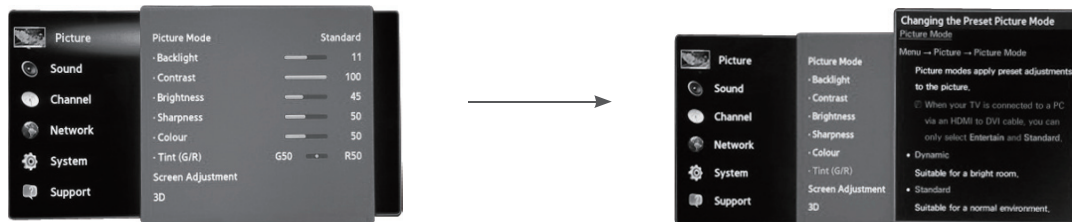
To use the **e-Manual**, follow these steps:

1. When you need help, select **Support** using your remote. The **Support** screen appears.
  2. Select **e-Manual** using your remote. The **e-Manual** screen appears.
  3. Select a desired category.
  4. Select a desired topic. The e-Manual displays the page you want to see.
- Blue words in **e-Manual** refer to menu options or selections in the TV's on screen menu.
  - Green icons in the e-Manual refers to a button on your remote.
  - Arrow steps (e.g. **Menu → Support → e-Manual**) in the e-Manual signify the sequence of steps required to access an option or activate a function.

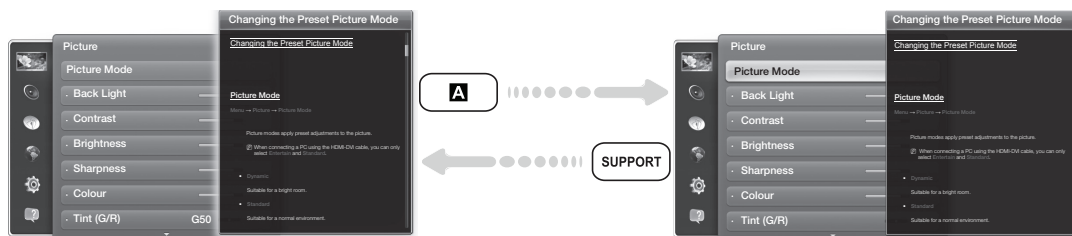


## Accessing the e-Manual from the Menu

When using the Menu and you want to find out more about a feature, highlight the item in the menu, press "**Support**" and select "**e-Manual**"



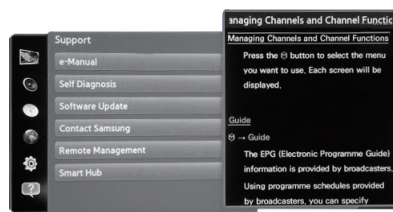
## How to toggle between an e-Manual topic and the corresponding OSD menu(s).



- This function is not enabled in some menus.
  - You can't use the **Try now** function if the menu is not available.
1. To go to the topic's corresponding menu option, select **A** using your remote.
  2. To return to the **e-Manual** screen, select **Support** using your remote.

## Using the coloured and function buttons with the e-Manual

- **Scroll bar**: Scroll the e-Manual screen up or down.
- **◀ / ▶**: Moves to the previous or next chapter.
- **A Try now**: Move the OSD menu that corresponds to the topic. To return to the e-Manual screen, select **Support** using your remote.
- **B Home**: Moves to the **e-Manual** home screen.
- **C Position**: Each time you select **C**, using your remote, you change the position of the e-Manual screen.
- **D Index**: Displays the Index screen.
- **↶ Return**: Return to the previous screen.



## How to search for a topic on the index page

1. Select **D** using your remote. The Index screen appears.
  2. To search for a topic, select a letter. The Index displays a list of topics and keywords that begin with the letter you selected.
  3. Select a topic or keyword you want.
  4. The **e-Manual** page with the topic appears.
- To close the **Index** screen, press the **RETURN** button.



## To Change the screen position of the e-Manual

If the **e-Manual** screen is not fully visible because of the OSD Menus screen, you can change the **e-Manual** screen's position.

1. Move the Highlight to the **e-Manual** screen of by pressing the **SUPPORT** button on your standard remote or select **Support** using the Smart Touch Control.
2. Press the **C** button on your standard remote, or select **C** using the Smart Touch Control. Each time you select **C** using your remote, the position of the **e-Manual** will change.



## Installing the Wall Mount

### Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. We do not advise you to do it yourself.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

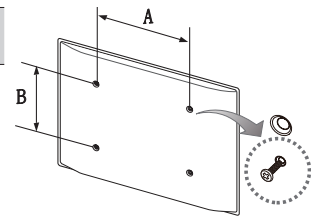
### Wall Mount Kit Specifications (VESA)

- ✎ The wall mount kit is not supplied, but sold separately.
- ✎ Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

#### NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too tightly; this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people to mount the TV on a wall.

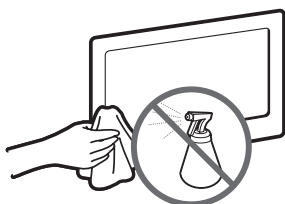
Product Family	inches	VESA Spec. (A * B)	Standard Screw	Quantity
PDP-TV [Ultra-Slim]	51	400 X 400	M8	4
	59~64	600 X 400		



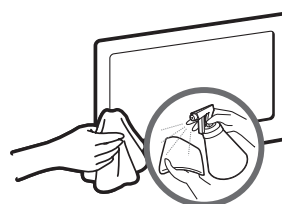
Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

## Storage and Maintenance

- If you attached some stickers on the TV screen, some debris may remain after removing the sticker. Please clean it to watch TV.



Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dampened in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

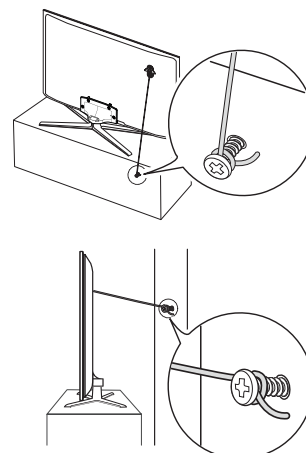
## Securing the TV to the Wall



**Caution:** Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV. Doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the included Safety Flyer with your TV. For added stability and safety, you can purchase and install the anti fall device as described below.

### To Avoid the TV from Falling

- Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
  - You may need additional material such as an anchor depending on the type of wall.
  - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
- Remove the screws from the back centre of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
  - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
  - Screw Specifications
    - For a 19 ~ 27 inch: M4
    - For a 32 ~ 75 inch: M8
- Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable and then tie the string tightly.
  - NOTE**
    - Install the TV near to the wall so that it does not fall backwards.
    - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
    - Untie the string before moving the TV.
- Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.




## Troubleshooting

If you have any questions about the TV, first refer to this list. If none of these troubleshooting tips apply, please visit “www.samsung.com,” then click on Support, or contact the call centre listed on the back-cover of this manual.a

Issues	Solutions and Explanations
The TV won't turn on.	<ul style="list-style-type: none"> <li>• Make sure the AC power cord is securely plugged in to the wall outlet and the TV.</li> <li>• Make sure the wall outlet is working.</li> <li>• Try pressing the <b>POWER</b> button on the TV to make sure the problem is not the remote. If the TV turns on, refer to “Remote control does not work” below.</li> </ul>
There is no picture/video.	<ul style="list-style-type: none"> <li>• Check cable connections (remove and reconnect all cables connected to the TV and external devices).</li> <li>• Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.</li> <li>• Make sure your connected devices are powered on.</li> <li>• Reboot the connected device by reconnecting the device's power cable.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>• Replace the remote control batteries with the poles (+/–) in the right direction.</li> <li>• Clean the sensor's transmission window on the remote.</li> <li>• Try pointing the remote directly at the TV from 5~6 feet away.</li> </ul>
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	<ul style="list-style-type: none"> <li>• Programme the Cable/Set remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code.</li> </ul>

 Some of above pictures and functions are available at specific models only.

 You can keep your TV as optimum condition to upgrade the latest firmware on web site (samsung.com → Support → Downloads) by USB.

## Display Resolution

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1366 x 768	47.712	59.790	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1600 x 900RB	60.000	60.000	108.000	+/+
	1680 x 1050	65.290	59.954	146.250	-/+
	1920 x 1080	67.500	60.000	148.500	+/+

### NOTE

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.

## Specifications

Display Resolution	1920 x 1080	
Environmental Considerations		
Operating Temperature	10°C to 40°C (50°F to 104°F)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-20°C to 45°C (-4°F to 113°F)	
Storage Humidity	5% to 95%, non-condensing	
TV System	Analogue: B/G, D/K, L, I (Depending on your country selection) Digital: DVB-T2/DVB-C/DVB-S2	
Colour/Video System	Analogue: PAL, SECAM, NTSC-4.43, NTSC-3.58, PAL60 Digital: MPEG-2 MP@ML, MPEG-4, H.264/AVC MP@L3, MP@L4.0, HP@L4.0	
Sound System	BG, DK, L, NICAM, MPEG1, DD, DD+, HEAAC.	
HDMI IN	Video: 1080 24p, 1080p, 1080i, 720p, 576p, 480p Audio: 2Ch Linear PCM 32/44.1/48kHz, 16/20/24bits.	
Stand Swivel (Left / Right)	-20° ~ 20°	
Model Name	PS51E8000	PS64E8000
Screen Size	51 inches	64 inches
Sound (Output)	10 W X 2	
Dimensions (WxHxD)		
Body	1193.0 x 713.0 x 55.1 mm	1485.0 x 882.8 x 55.1 mm
With stand	1193.0 x 806.3 x 309.3 mm	1485.0 x 971.8 x 351.7 mm
Weight		
Without Stand	21.3 kg	34.5 kg
With Stand	23.6 kg	37.7 kg

## Smart Touch Control

Model Name	RMCTPE1	
Power	Source	Battery (AA x 2)
		To extend the battery life, use of alkaline battery is recommended
Input	Button	14 Keys
	Touch Pad	Capacitive Touch Sensor (45mmx55mm)
Output	Indicator	Device Indicator LED x 3
	IR	Infrared Emitting Diode x 1
Features	Touch Control	Absolute Coordinate
	MBR	Universal Control
	Voice	Voice Transfer via Bluetooth
	Bluetooth	Bluetooth 2.1 Supported
MBR	MBR Database Coverage	Global
	Supported Device Mode	3 Mode (TV, STB, BD)
	Maximum Working Distance	12m
Voice	Voice Transfer	Bluetooth HID protocol
	Supported Audio Data Rate	16KHz, 16bit
	Suggested Sound Level	-15.5dB (from 0dB Full-scale)
Bluetooth	RF	2.4GHz, CSM Band
	Pairing Method	IR Triggered Standard Pairing
	Maximum Pairing Distance	4m (Line of Sight, Targeting IR Receiver on TV)
	Maximum Working Distance	10m (Line of Sight)
Setup	Pairing with TV	Yes
	Programming MBR	TV Widget needed
Operating	Operating Temperature	32°F to 104°F (0°C to 40°C)
	Working Distance	IR : Normal 10m, Max 12m / BT : 10m
	Working Hours	3 month (200 times button pressed / day)
Compatibility	LED TV	Above LED E7000
	PDP TV	E8000
Dimension	Set (mm)	154x52x19.5
Weight	Set (without Batteries)(g)	119
	Set (Including Batteries)(g)	165
Accessory		Batteries (AAx2)



## IR Blaster

Model Name	VG-IRB2000	
Power	Source	Battery (AA x 4)
		To extend the battery life, use of alkaline battery is recommended
Input	Button	2 Keys (Pairing, Power on/off)
Output	Indicator	Indicator LED x 1
	IR	Infrared Emitting Diode x 5
Features	MBR	Universal Control
	Bluetooth	Bluetooth 2.1 Supported
MBR	MBR Database Coverage	Global
	Supported Device Mode	3 Mode (TV, STB, BD)
	Maximum Working Distance	8m
Bluetooth	RF	2.4GHz, CSM Band
	Pairing Method	IR Triggered Standard Pairing
	Maximum Pairing Distance	4m (Line of Sight, Targeting IR Receiver on TV)
	Maximum Working Distance	10m (Line of Sight)
Setup	Pairing with TV	Yes
	Programming MBR	TV Widget needed
Operating	Operating Temperature	32°F to 104°F (0°C to 40°C)
	Working Distance	IR : Normal 10m, Max 12m / BT : 10m
	Working Angle	360 degree
	Working Hours	3 month (200 times button pressed / day)
Compatibility	LED TV	Above LED E7000
	PDP TV	E8000
Dimension	Set (mm)	W95xD79xH65
(WxDxH)	Package (mm)	W88xD71xH102
Weight	Set (without Batteries)(g)	86.5
	Set (Including Batteries)(g)	178.5
	Package(g)	30.6
Accessory		Batteries (AAx4)

- Design and specifications are subject to change without prior notice.
- For information about power supply, and more about power consumption, refer to the label attached to the product.
- Typical power consumption is measured according to IEC 62087 Ed.2

## Recommendation - EU Only



- Hereby, Samsung Electronics, declares that this LED TV is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- The official Declaration of Conformity may be found at <http://www.samsung.com>, go to Support > Search Product Support and enter the model name.
- This equipment may only be used indoors.
- This equipment may be operated in all EU countries.

## Licence



## Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

### CAUTION

#### RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service centre.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service centre.



**WARNING - TO PREVENT THE SPREAD OF FIRE,  
KEEP CANDLES OR OTHER OPEN FLAMES  
AWAY FROM THIS PRODUCT AT ALL TIMES.**

## Warranty Card



**UNITED KINGDOM**



**REPUBLIC OF IRELAND  
(EIRE)**

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

**Samsung Electronics U.K. Ltd.**  
**Customer Care Centre**  
**PO Box 479**  
**GATESHEAD NE9 9BJ**  
**United Kingdom**  
**Tel: 0330 SAMSUNG (7267864) / Fax: 0330 7260001 (UK & Northern Ireland)**  
**Tel: 0818 717100 / Fax: +44 117 915 6736 (EIRE Only)**  
**Web: [www.samsung.com](http://www.samsung.com)**

### WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured.
5. This warranty covers none of the following:
  - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
  - b) Cost relating to transport, removal or installation of the product.
  - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
  - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
  - e) Spillage of food or liquid or use of any other hazardous substances, which may effect the product.
  - f) Performance due to differences in broadcasting method between countries
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.
8. Some products may differ from these guidelines. Please check with your dealer or the local Samsung web-site.

## Wiring the Mains Power Supply Plug (UK Only)

### IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS11362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitably approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

### IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

### WARNING:

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

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